

12/18/2008

Application No. 10/538,763 Confirmation No. 5550
 Applicant: Steven D. SLONAKER Attorney Docket No. P27955
 Title: METHOD AND SYSTEM FOR RECONSTRUCTING ABERRATED
 IMAGE PROFILES THROUGH SIMULATION
 Responsive to Official Communication dated: June 24, 2008
REPLACEMENT SHEET

fig 1a aerial image intensity vs. horizontal position

grouped by defocus level
 pattern 1

aerial image intensity vs. horizontal position and focus
 no aberration case

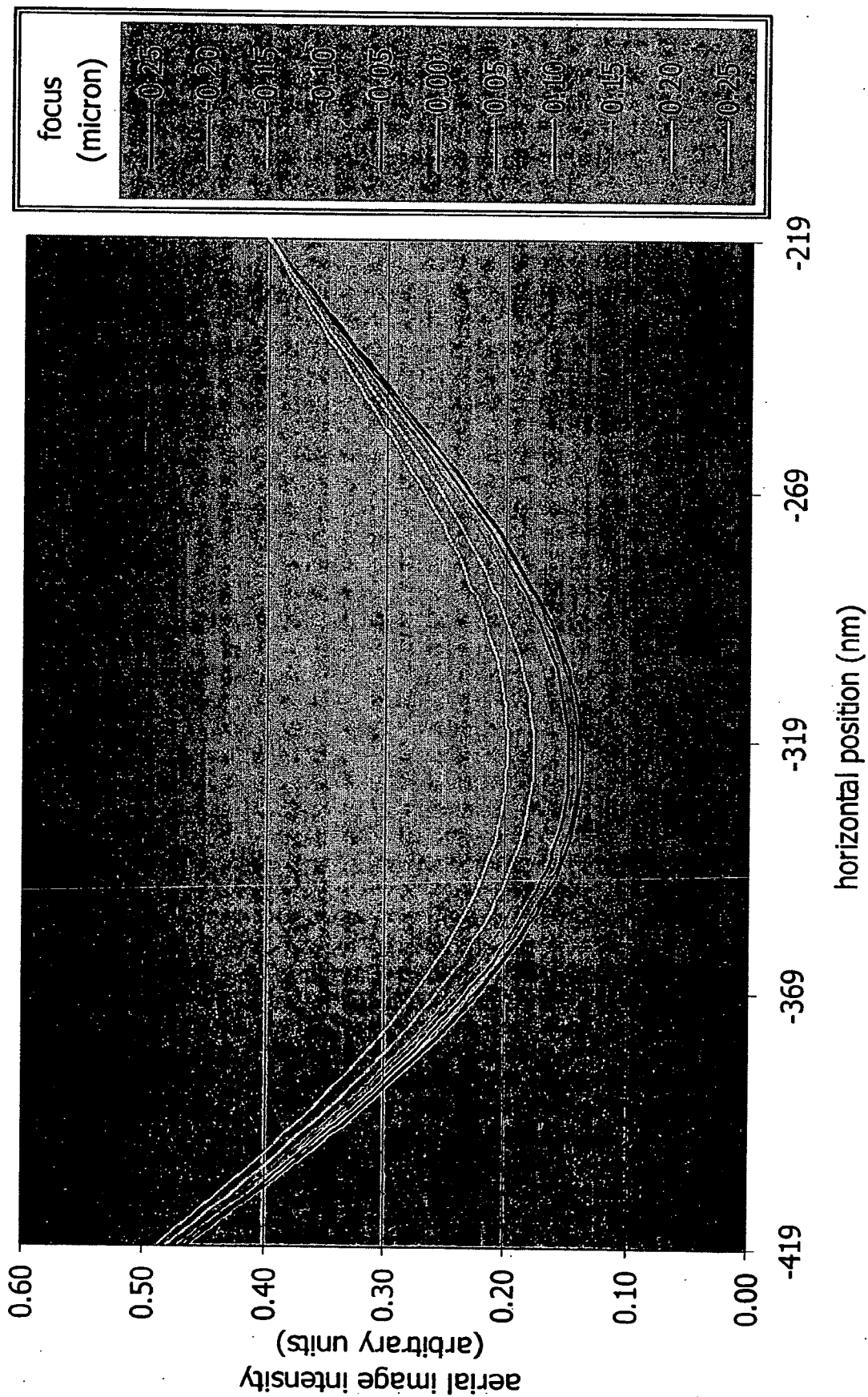


fig 1b

aerial image intensity vs. focus
grouped by horizontal pixel position

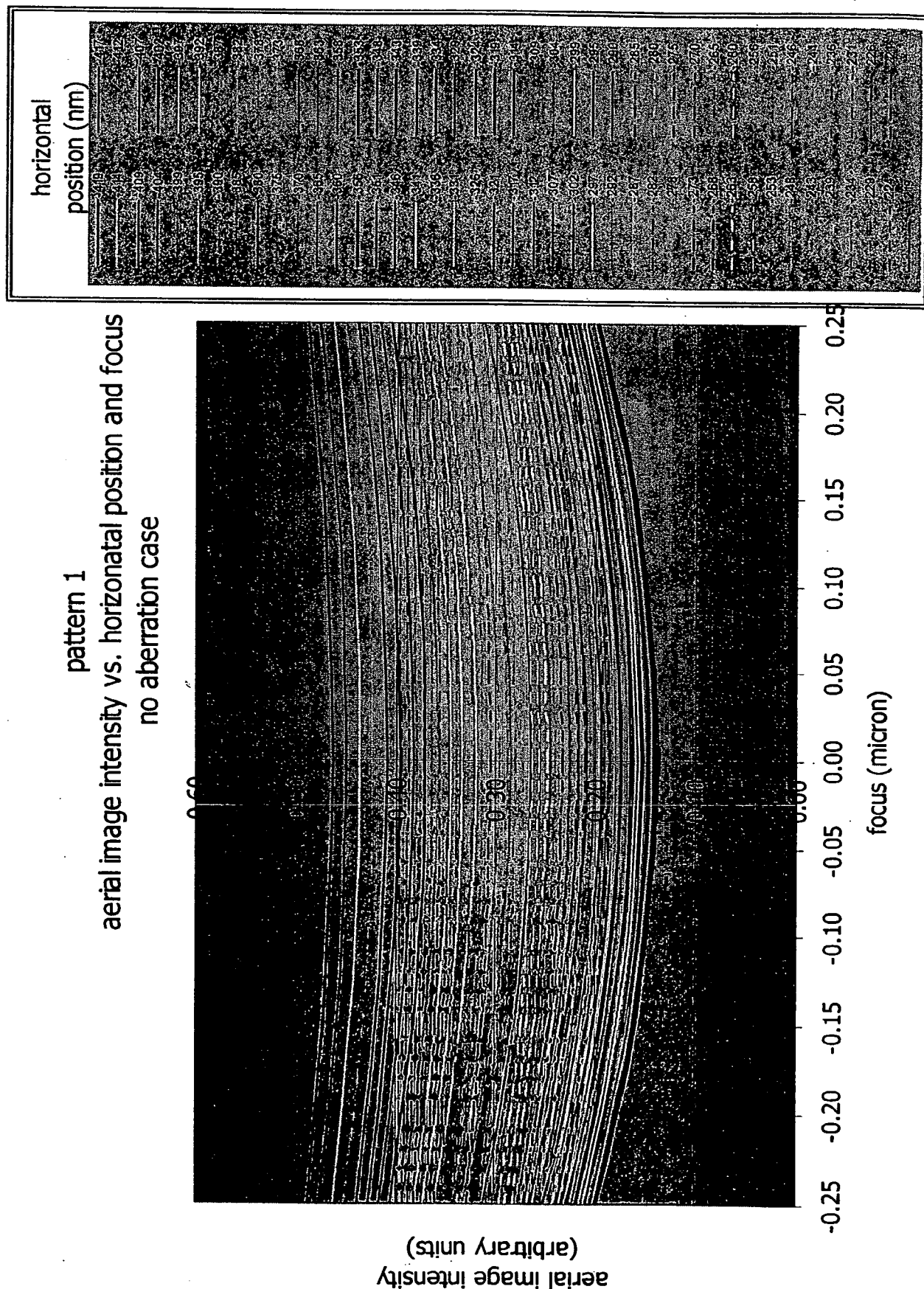
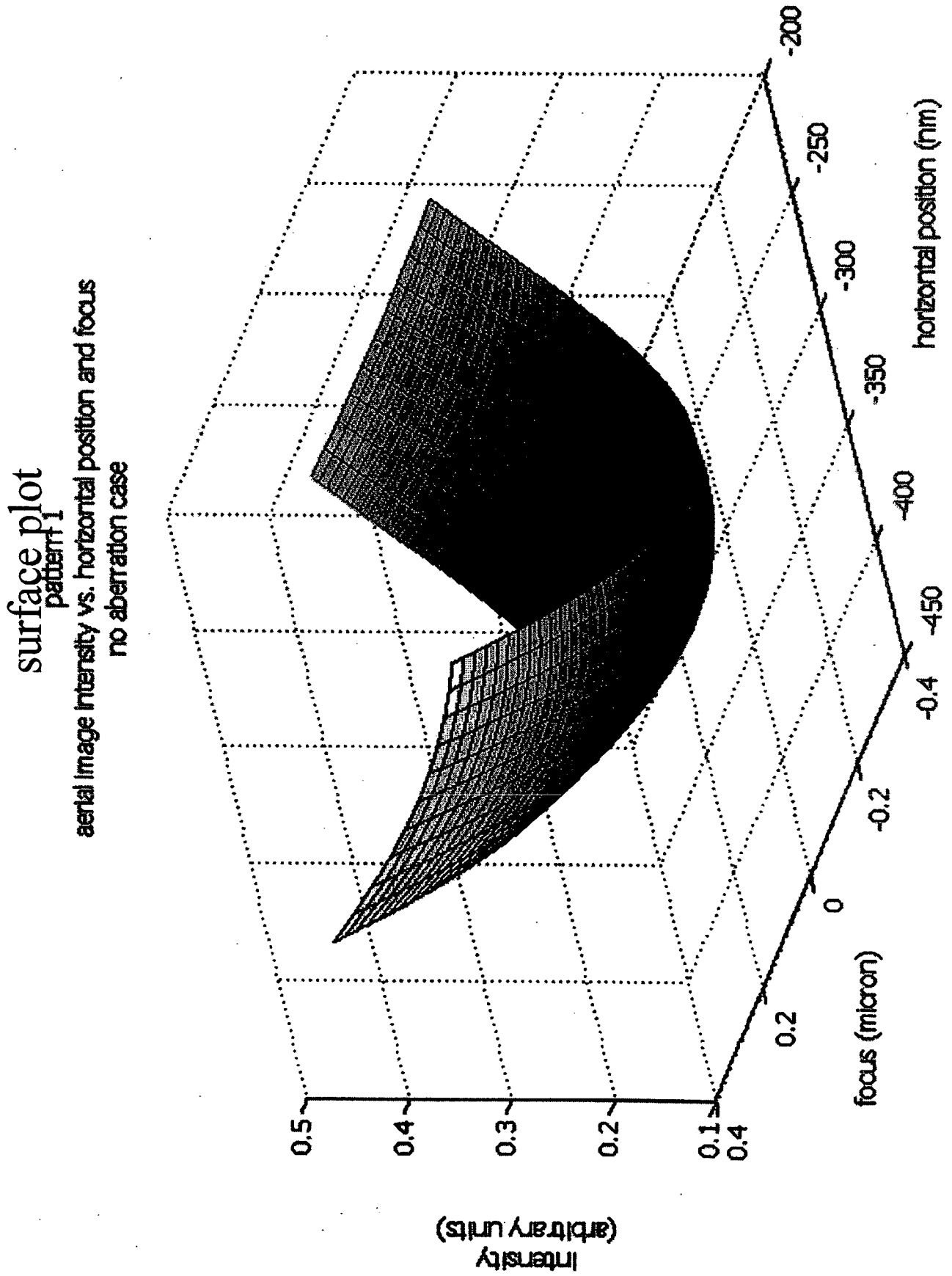


fig 2 aerial image intensity vs. horizontal position and focus



Zernike 2 -0.025 waves rms

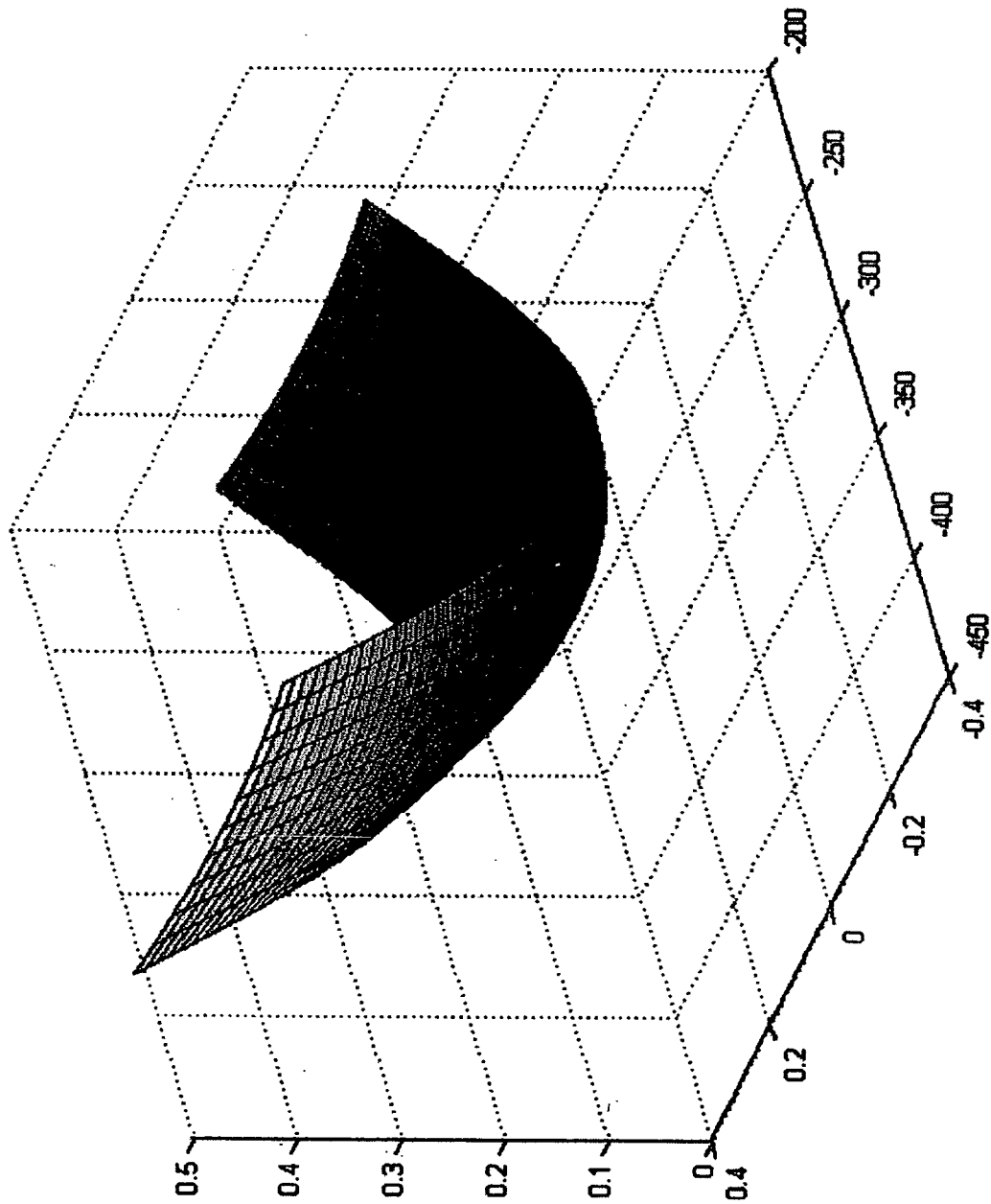


fig 3a

Zernike 2 -0.020 waves rms

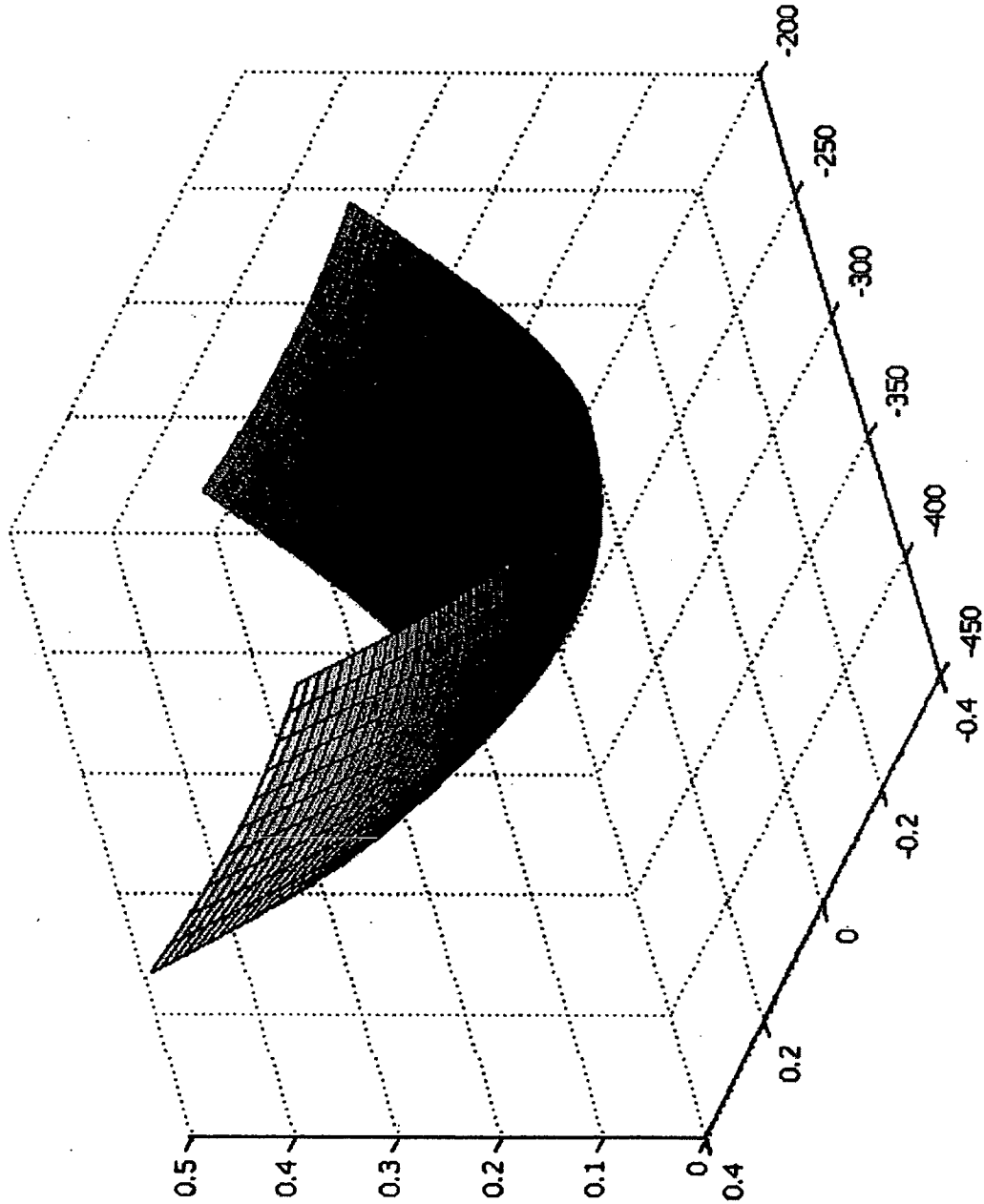


fig 3b

Zernike 2 -0.015 waves rms

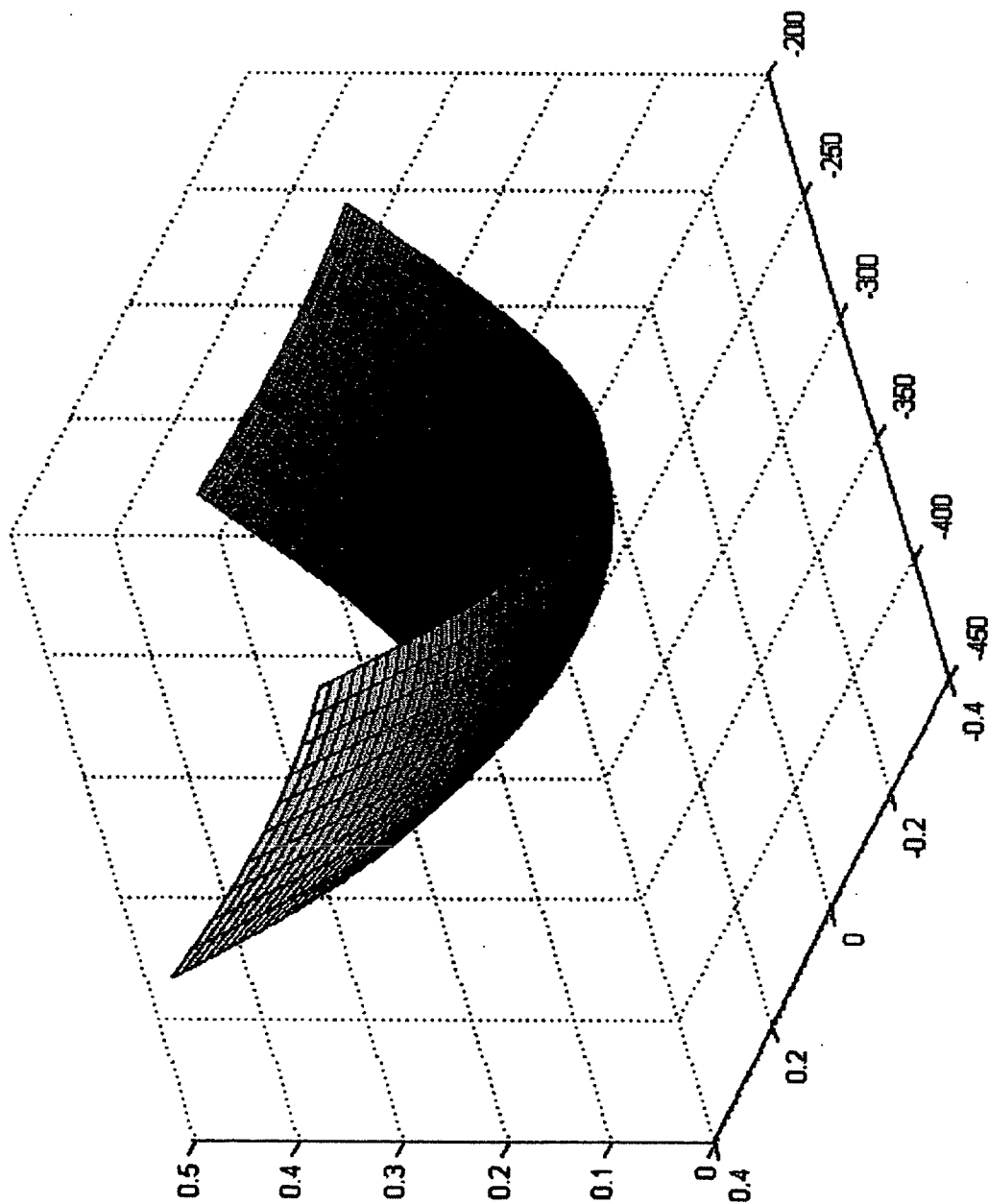


fig 3c

Zernike 2 -0.010 waves rms

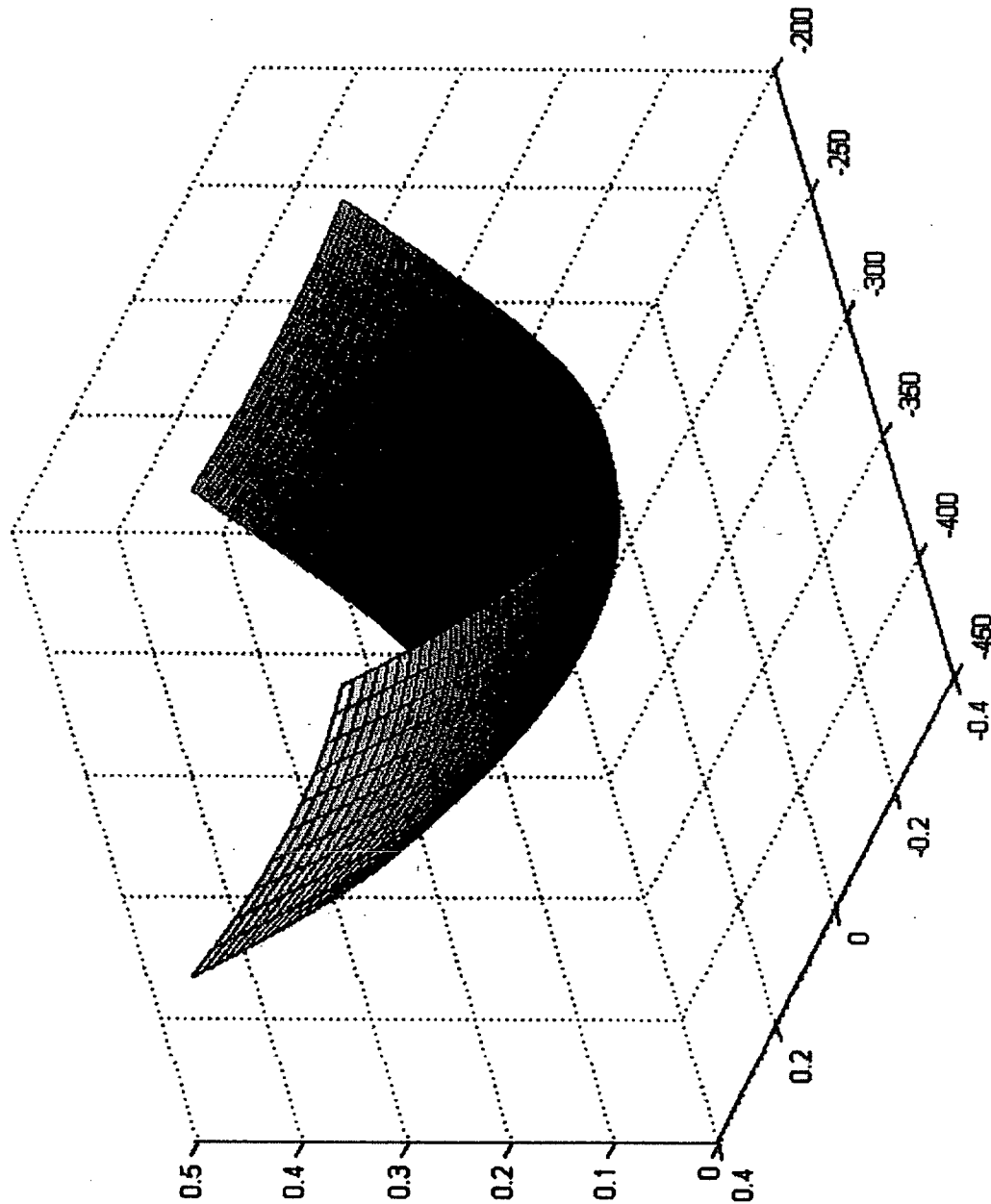


fig 3d

Zernike 2 -0.005 waves rms

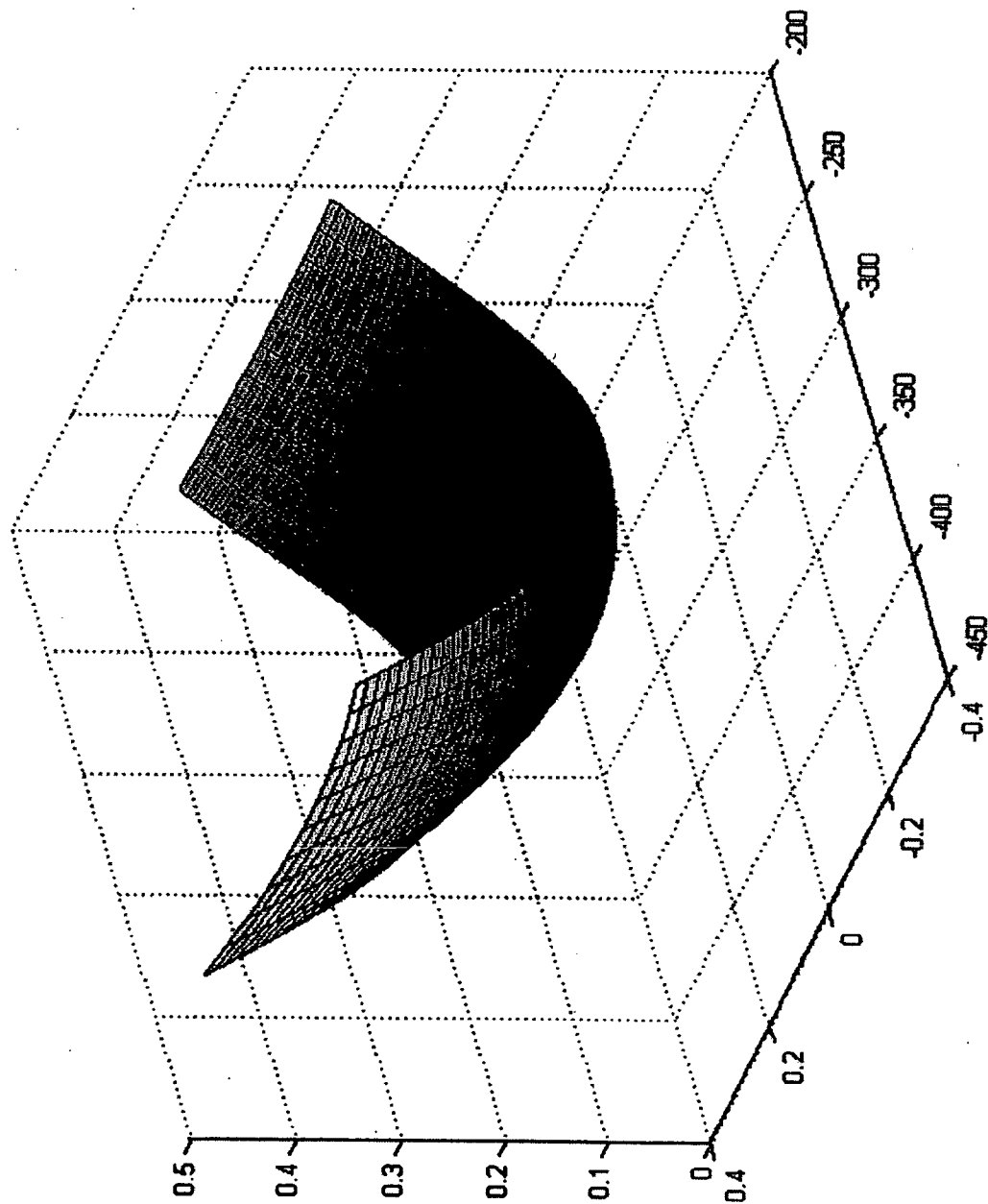
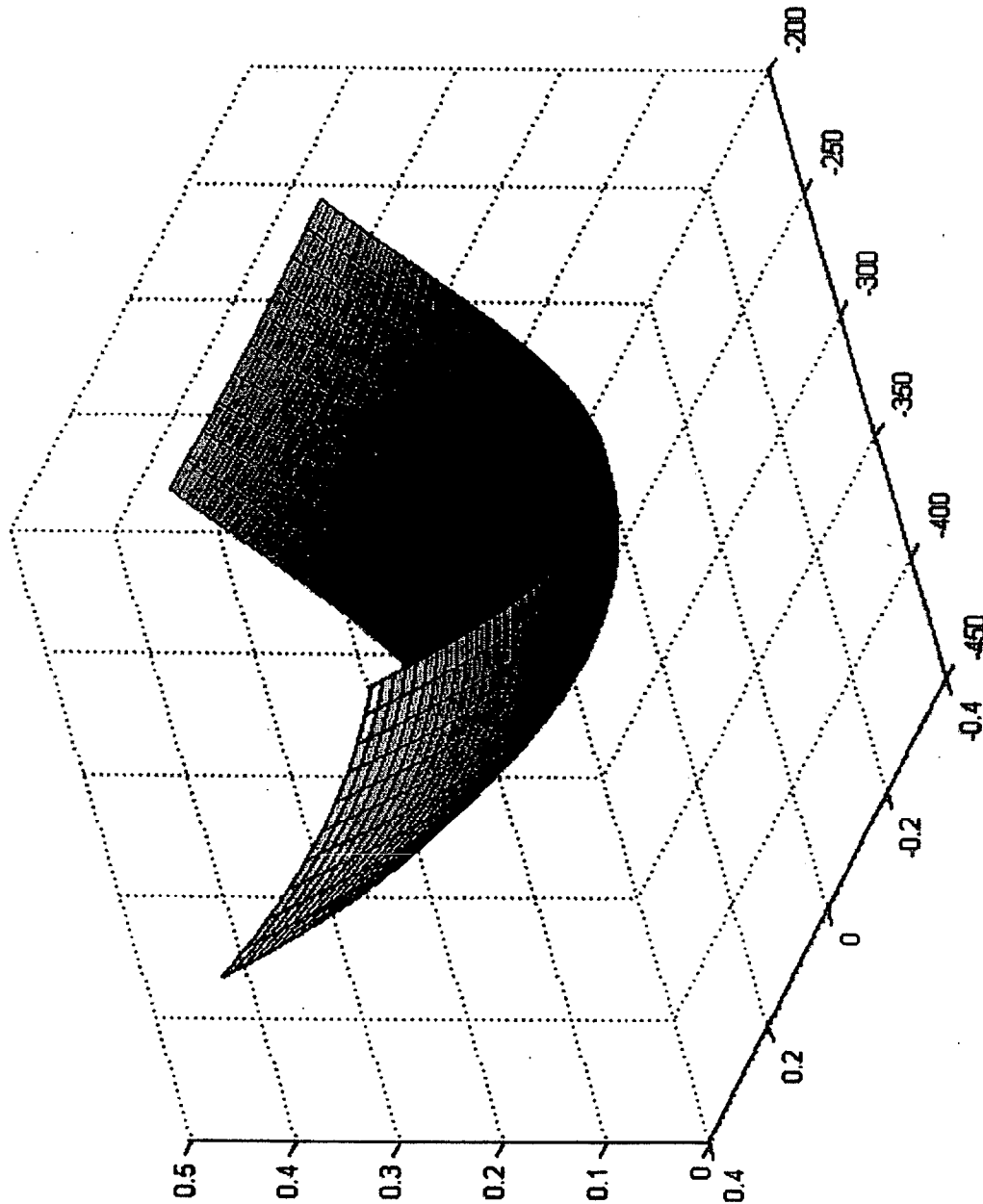


fig 3e

fig 3f Zernike 2 0 waves rms (=no aberration case)



Zernike 2 +0.005 waves rms

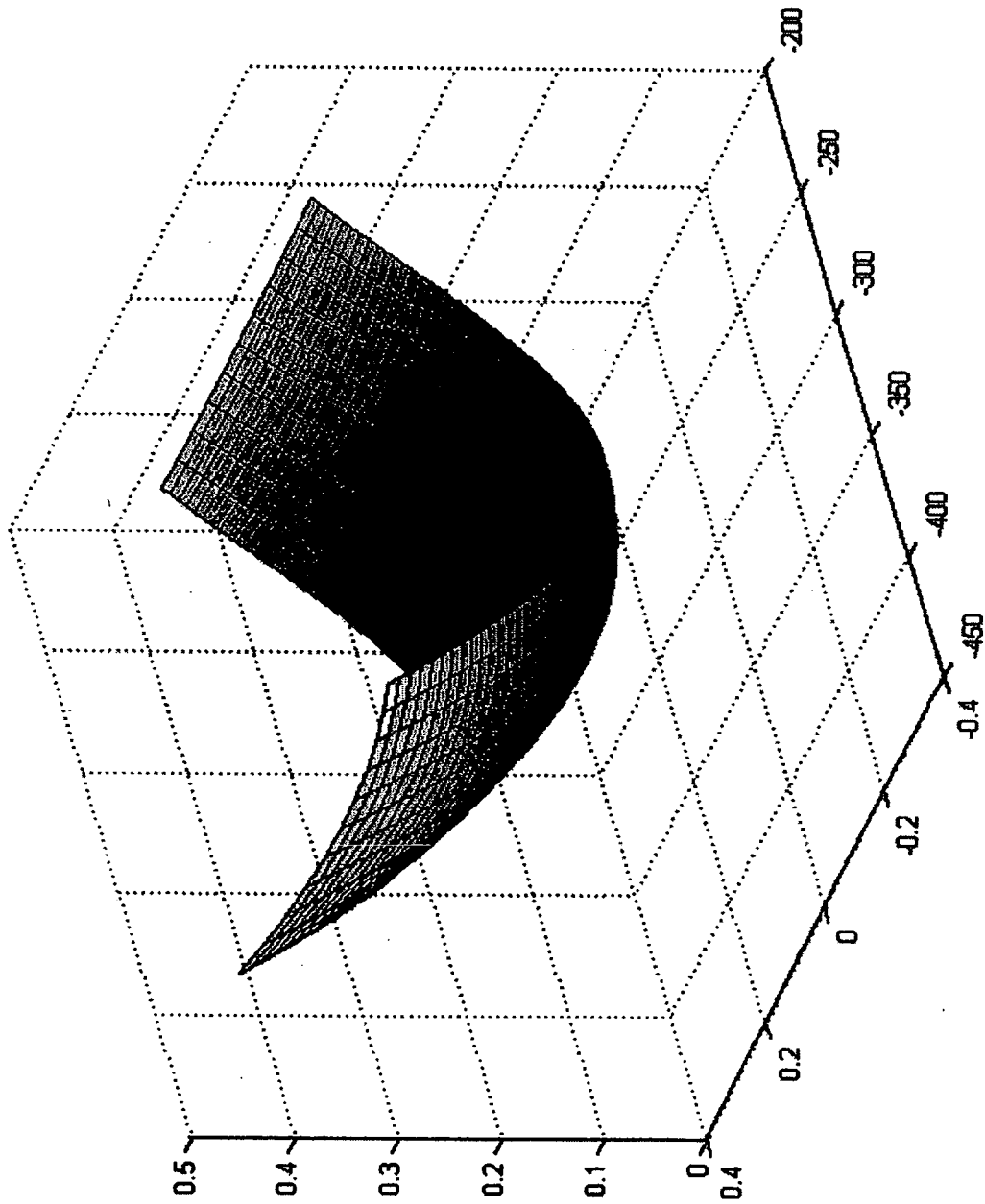
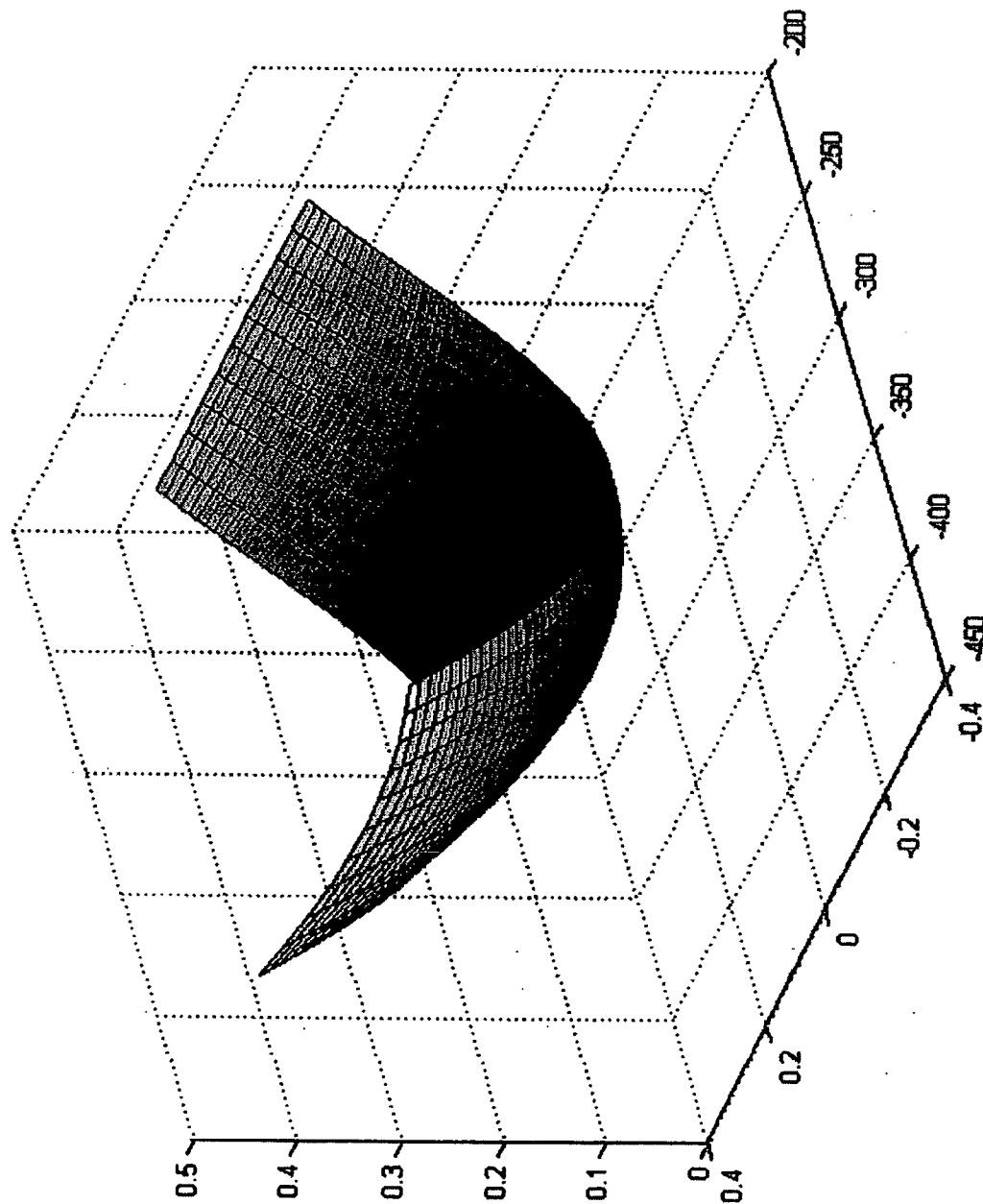


fig 3g

fig 3h

Zernike 2 +0.010 waves rms



Zernike 2 +0.015 waves rms

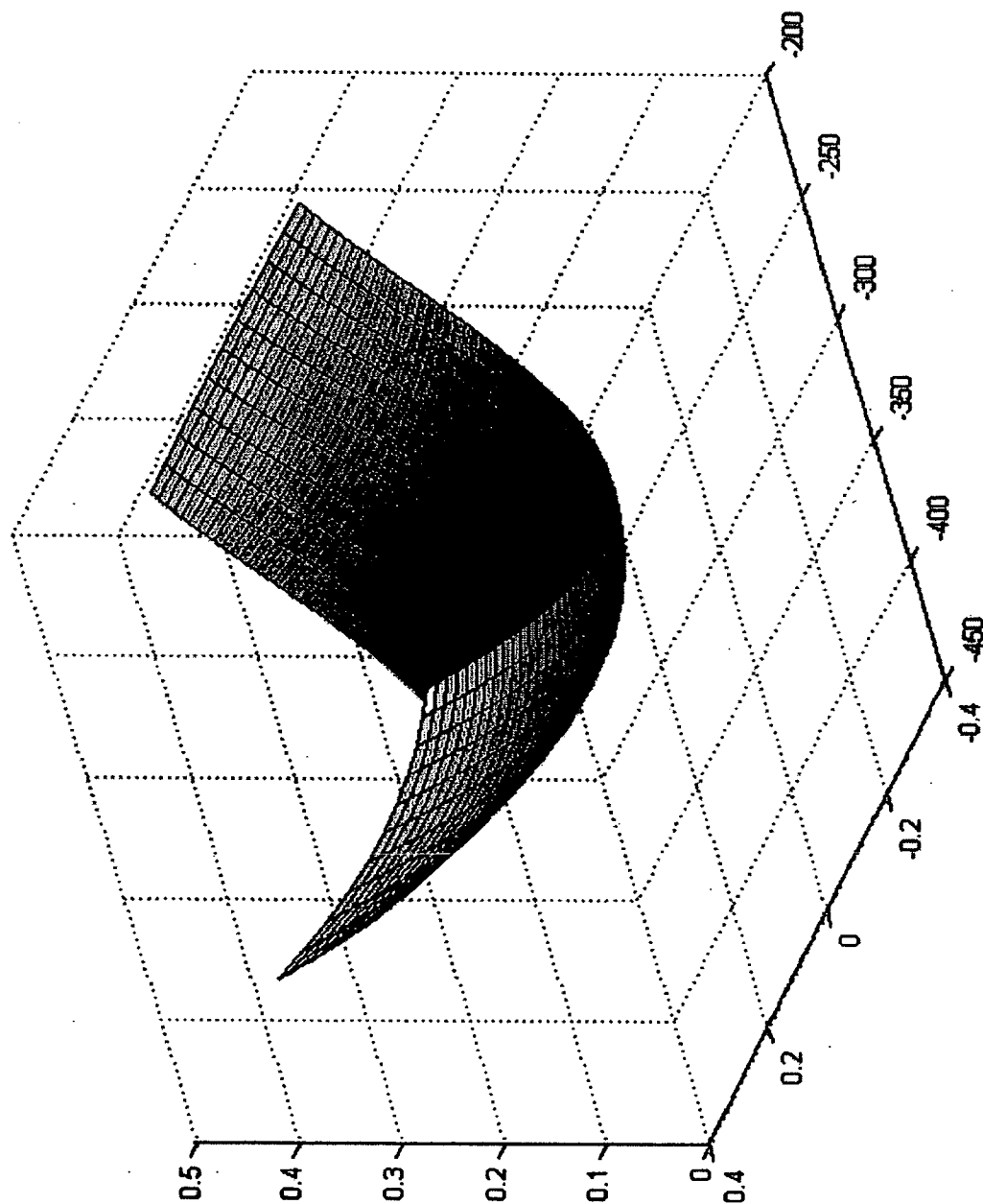
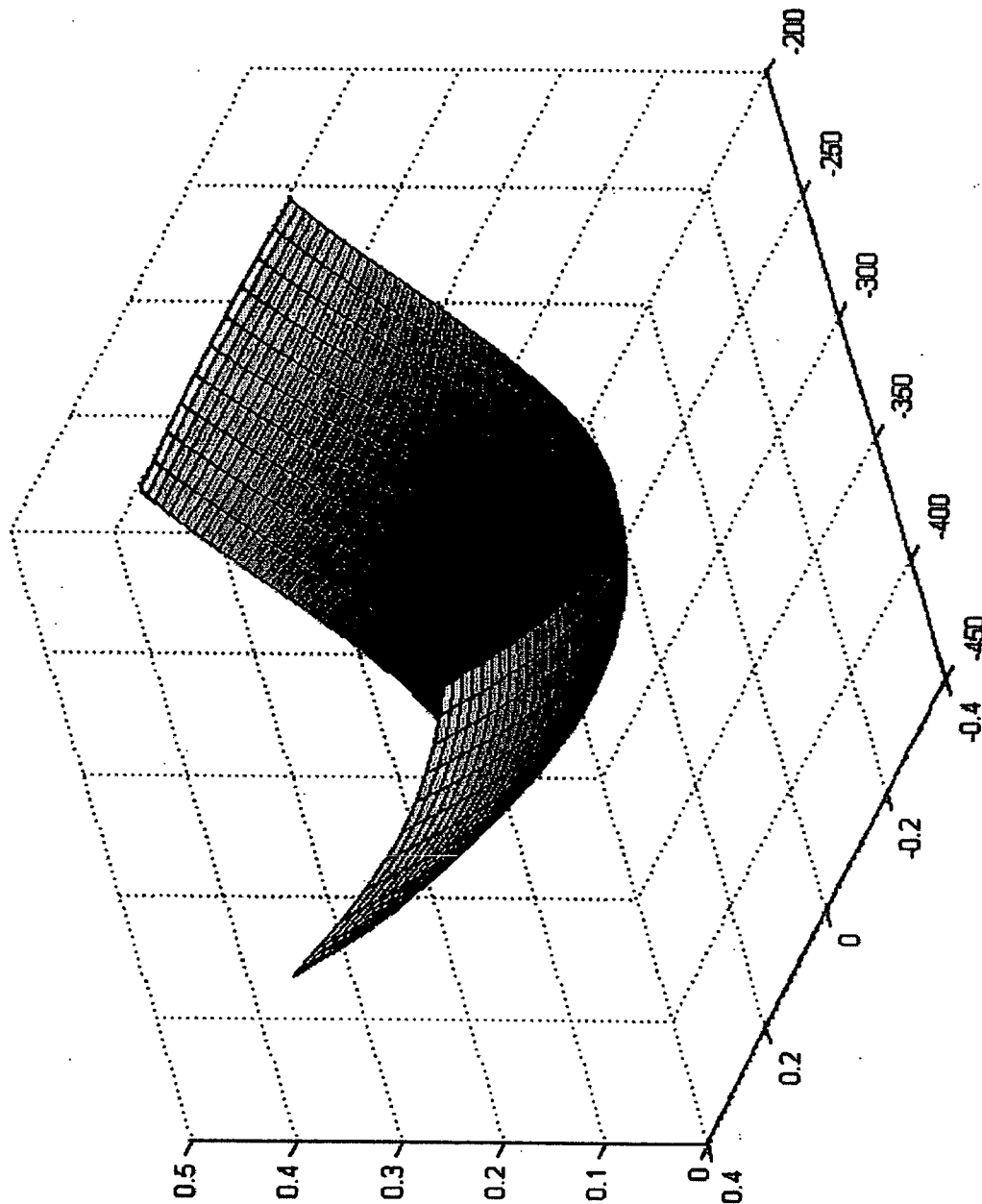


fig 3i

fig 3j

Zernike 2 +0.020 waves rms



Zernike 2 +0.025 waves rms

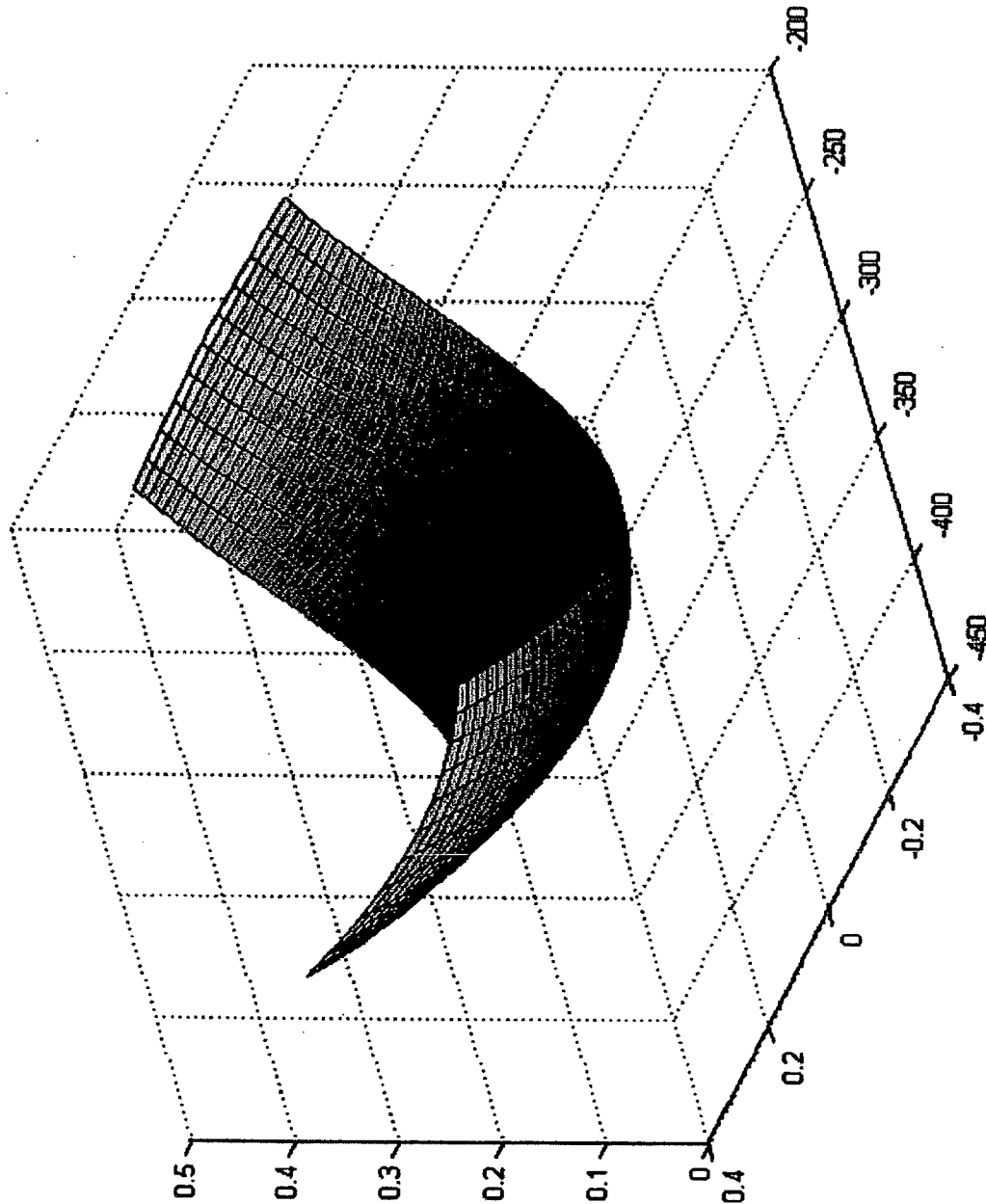


fig 3k

fig 4a

Zernike 2 -0.025 waves rms

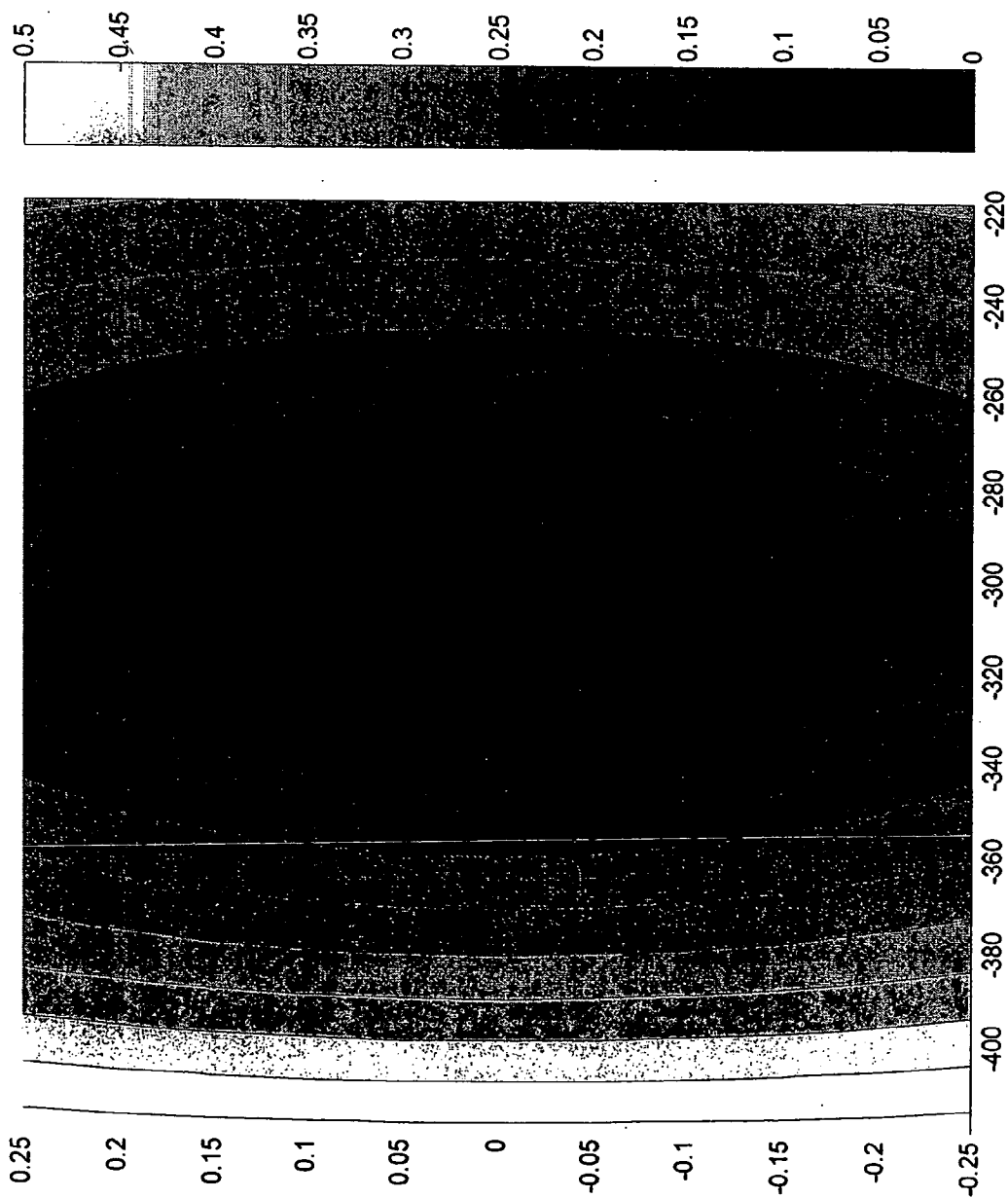
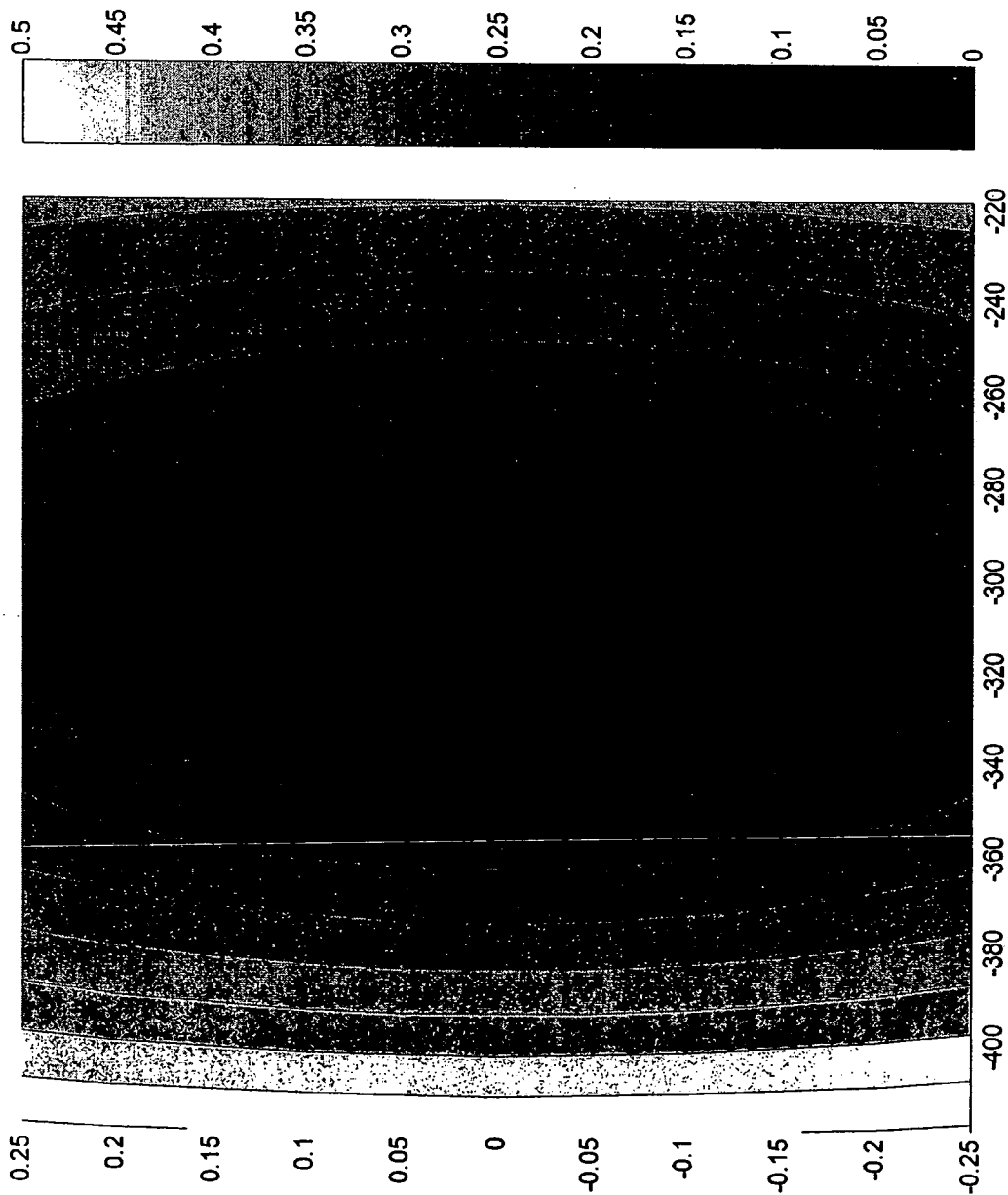


fig 4b

Zernike 2 -0.020 waves rms



Zernike 2 -0.015 waves rms

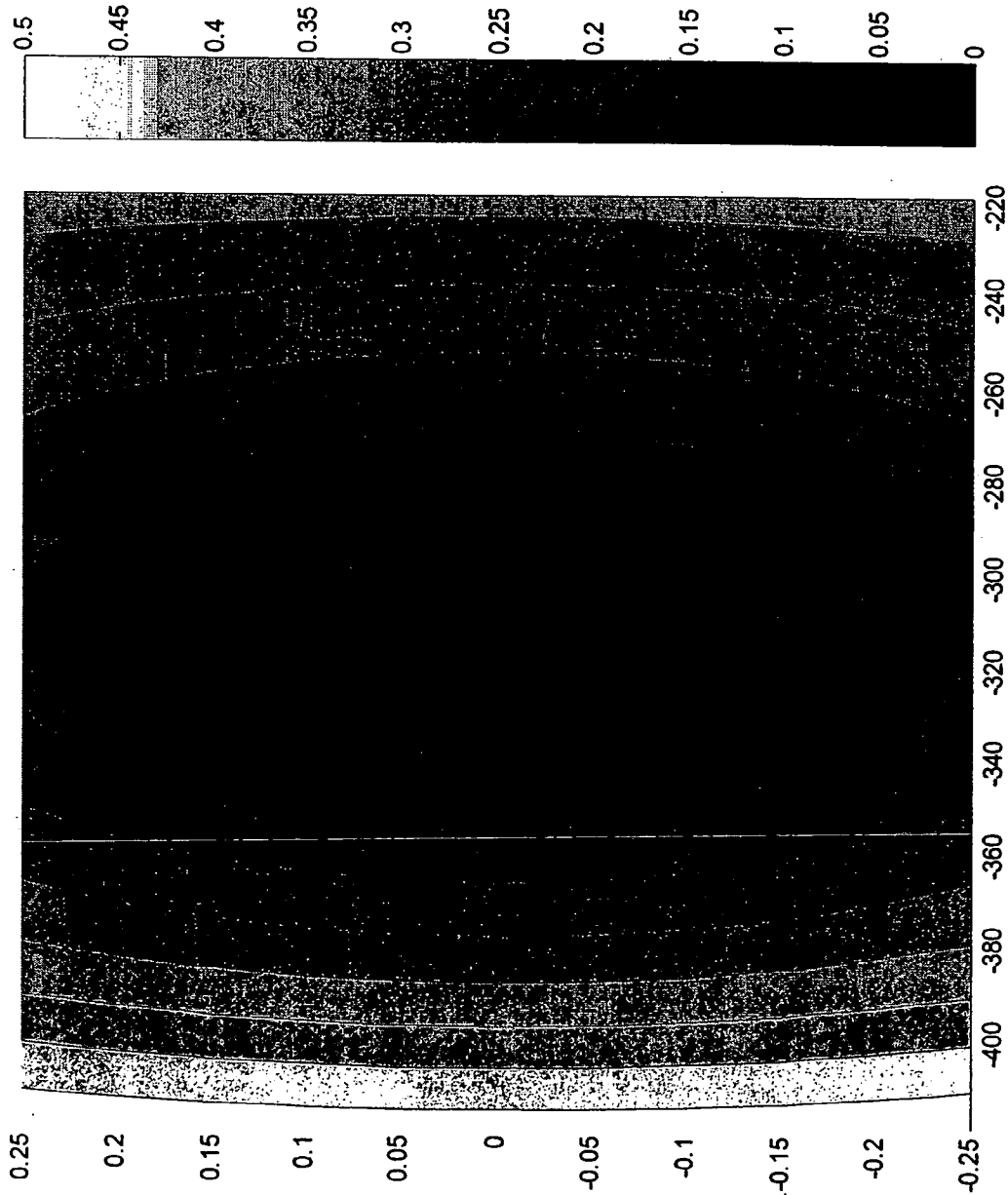
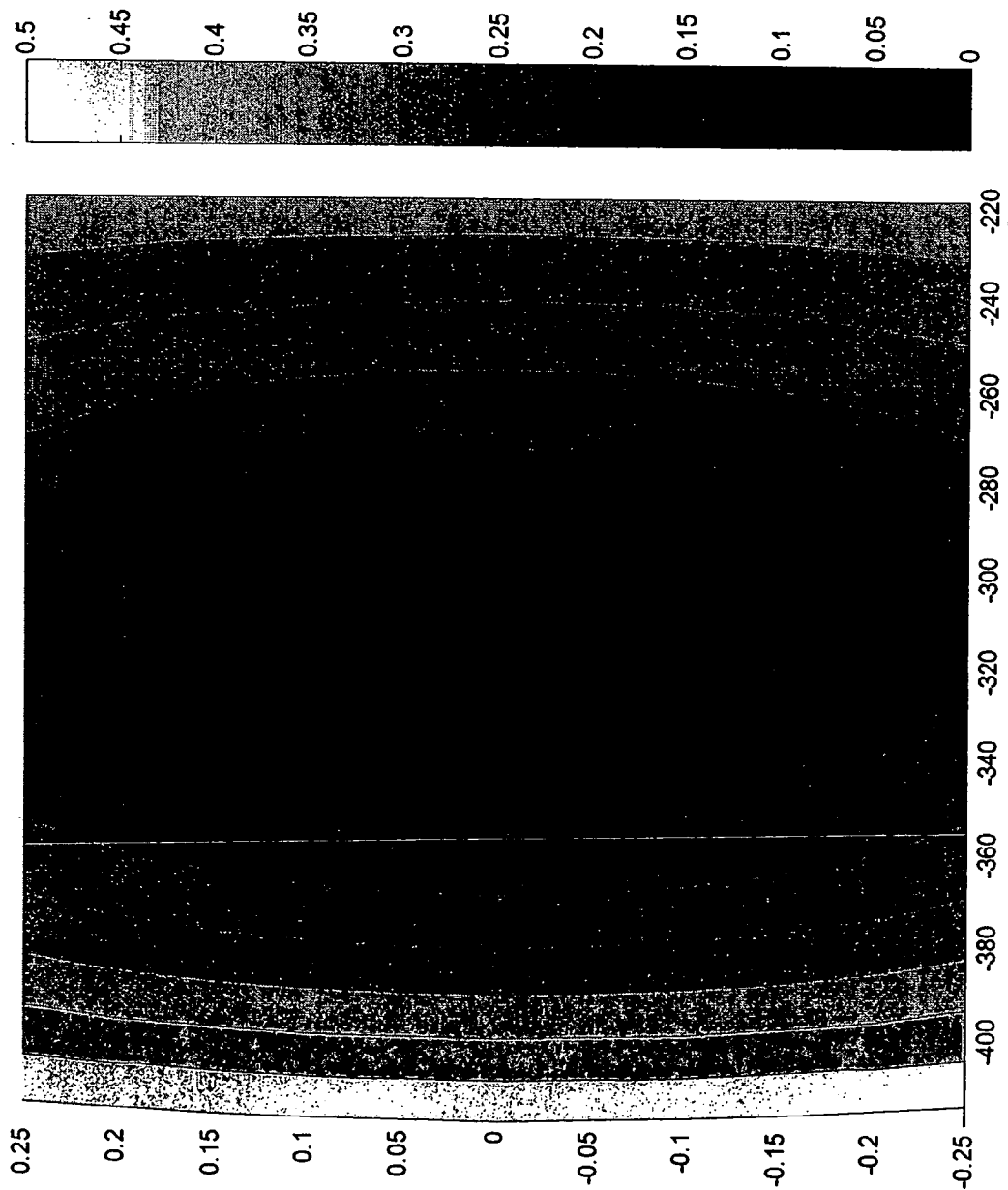


fig 4c

fig 4d

Zernike 2 -0.010 waves rms



Zernike 2 -0.005 waves rms

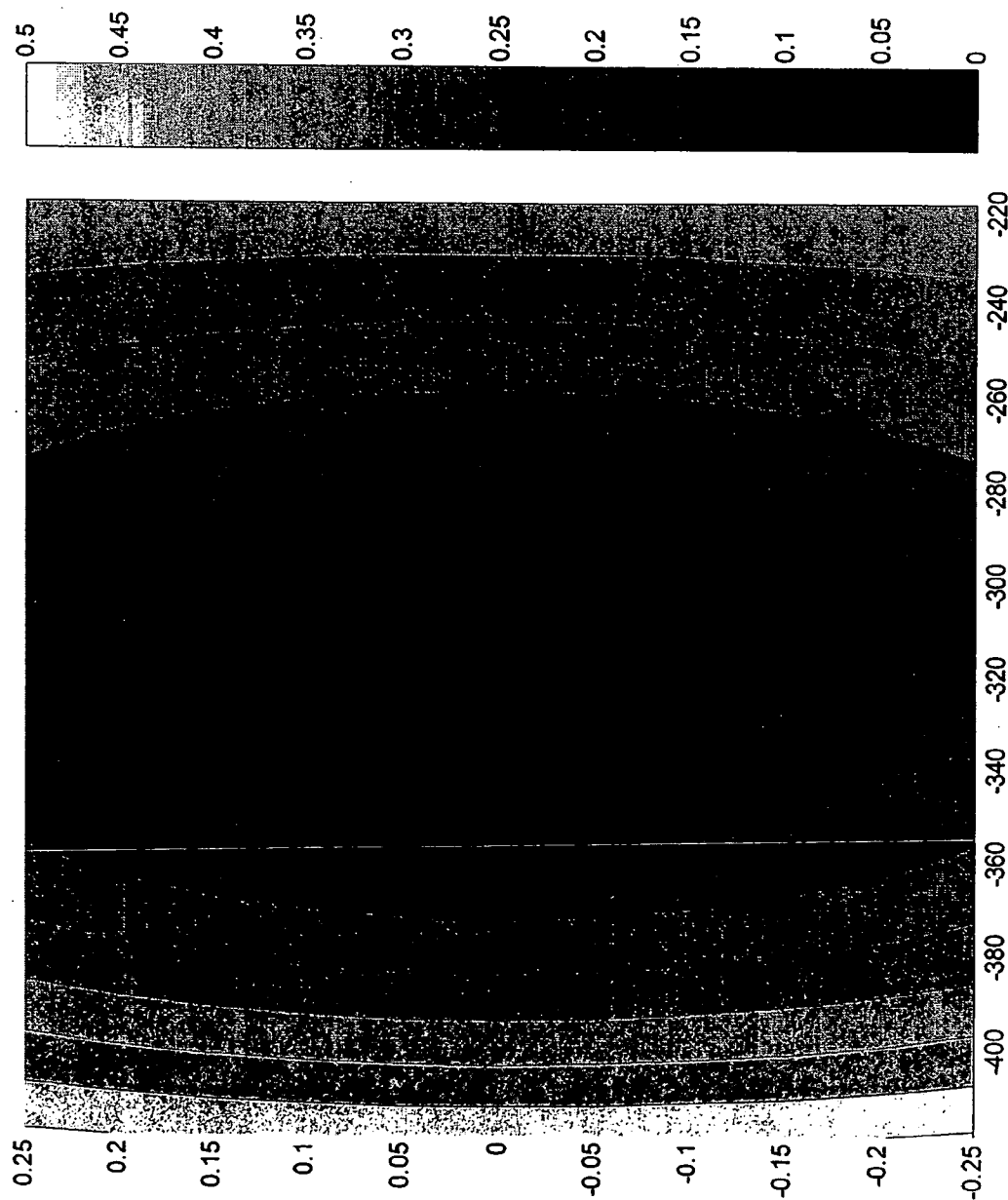
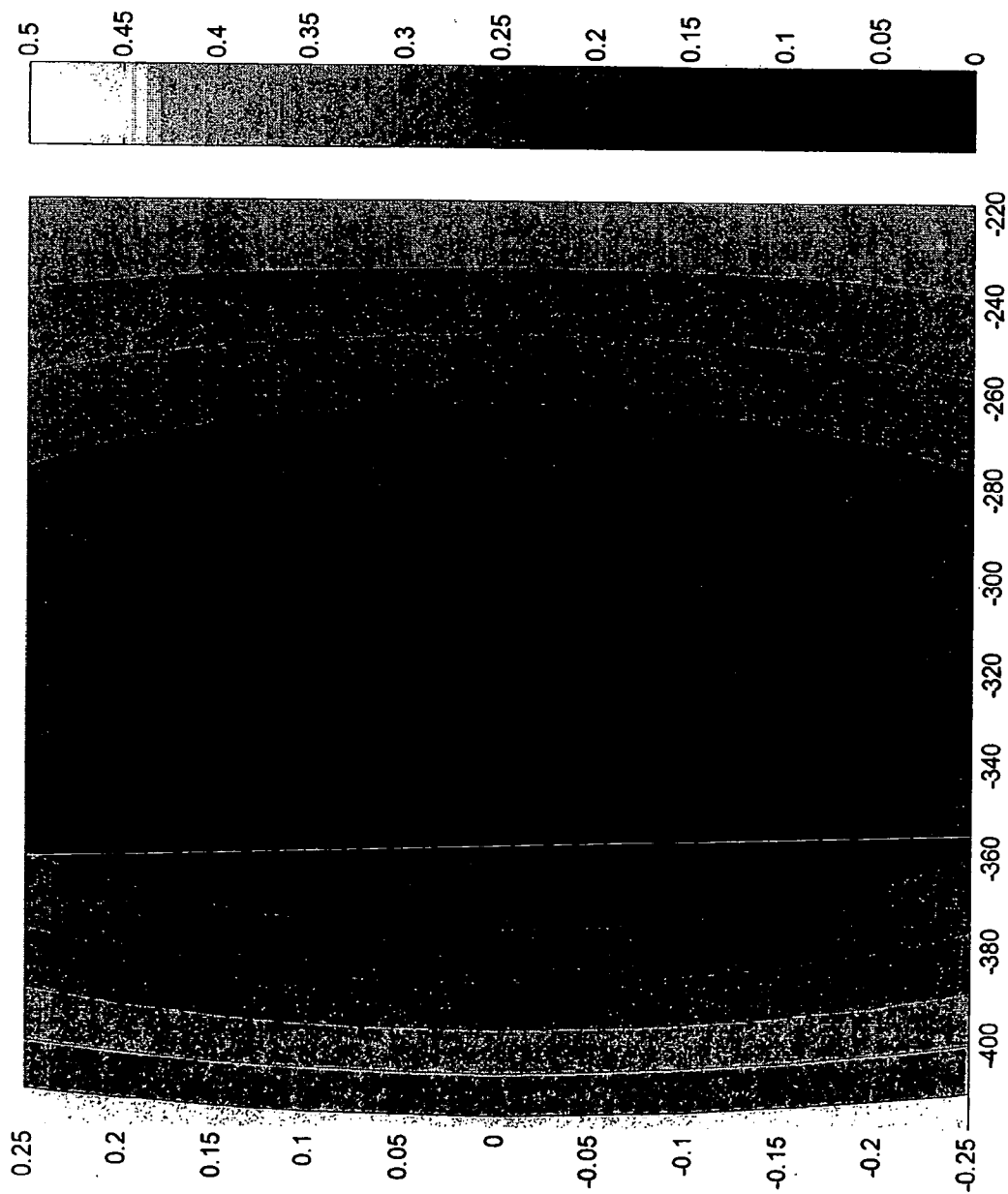


fig 4e

fig 4f Zernike 2 0.0 waves rms =no aberration case



Zernike 2 +0.005 waves rms

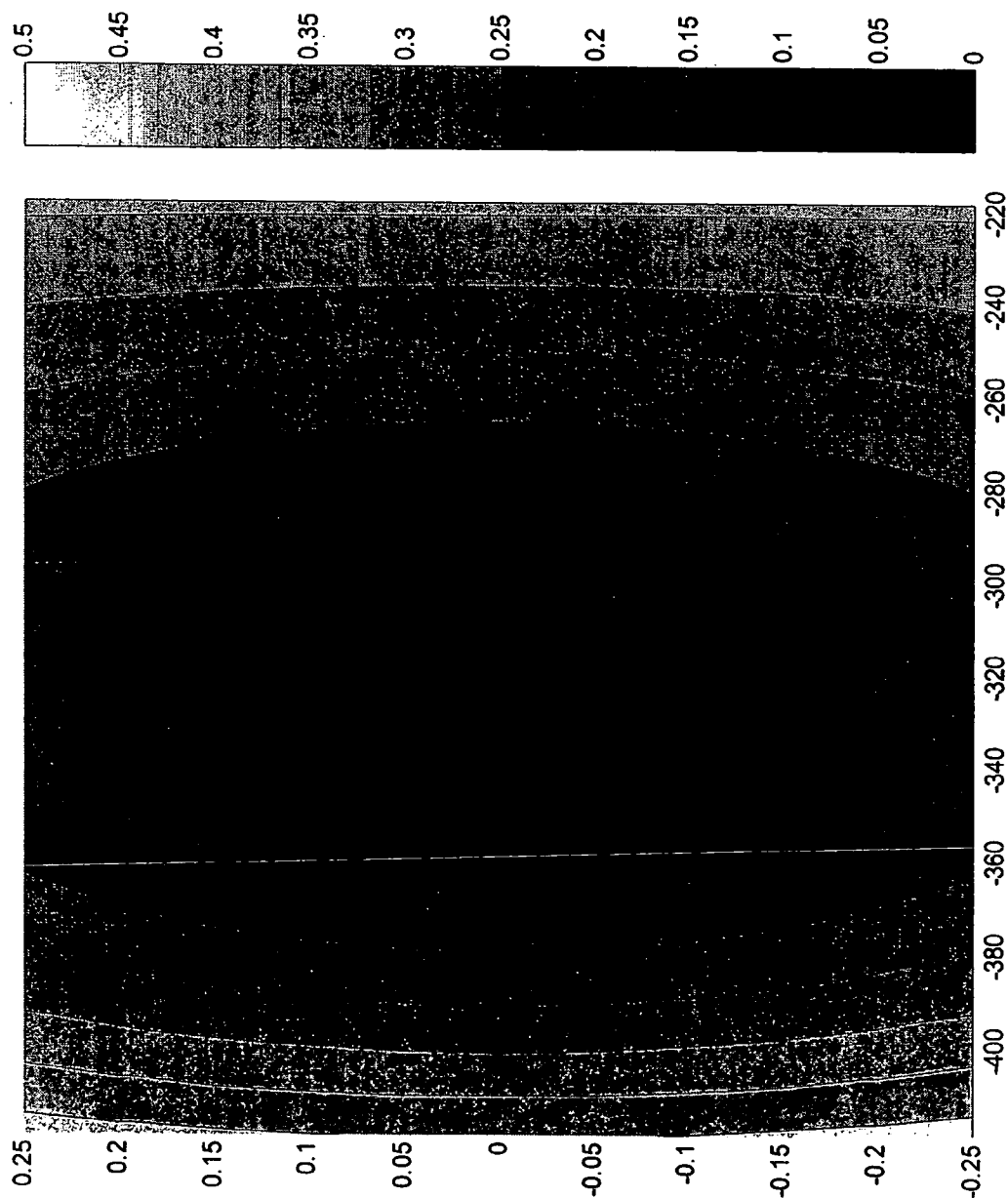


fig 4g

fig 4h

Zernike 2 +0.010 waves rms

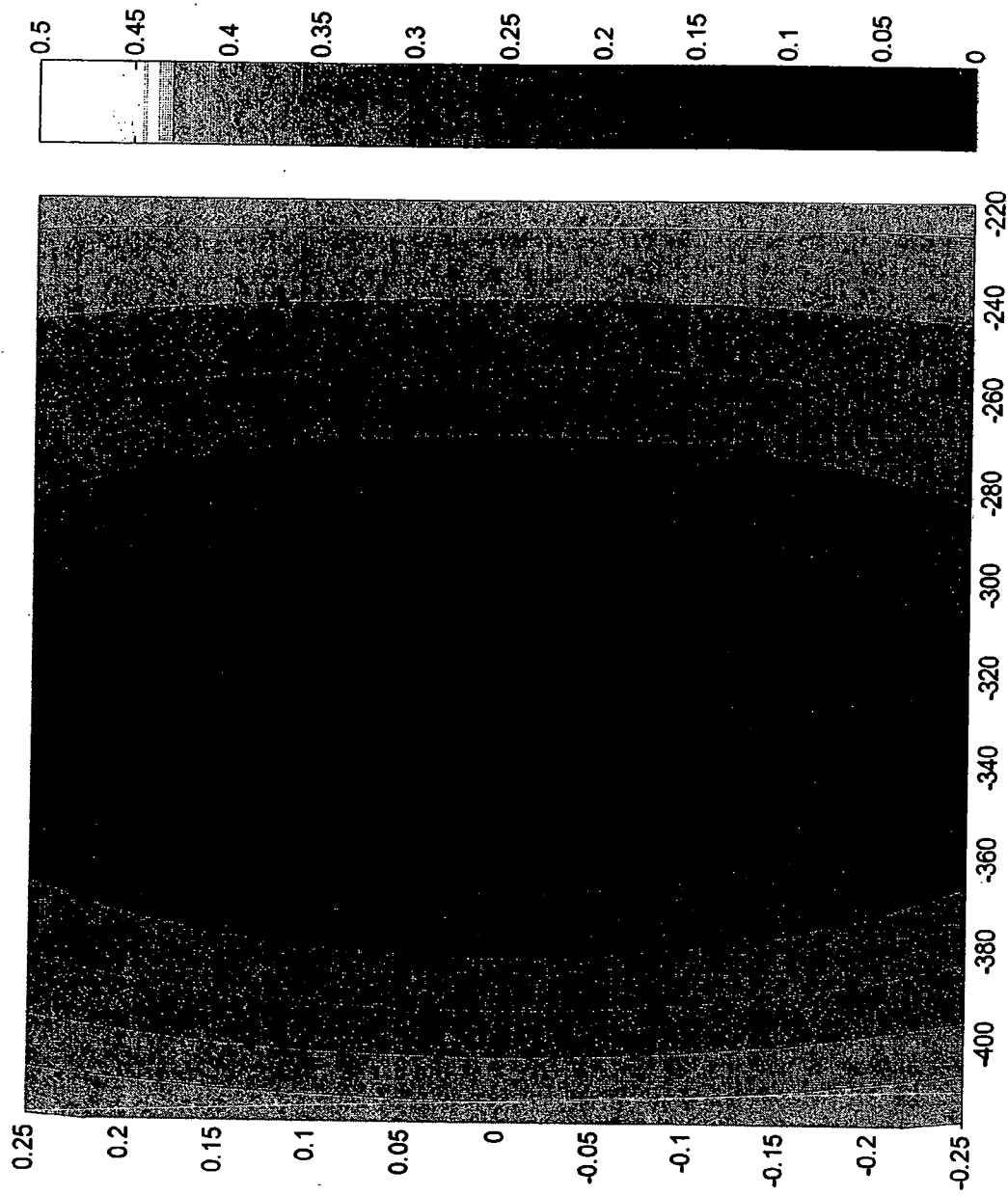


fig 4i

Zernike 2 +0.015 waves rms

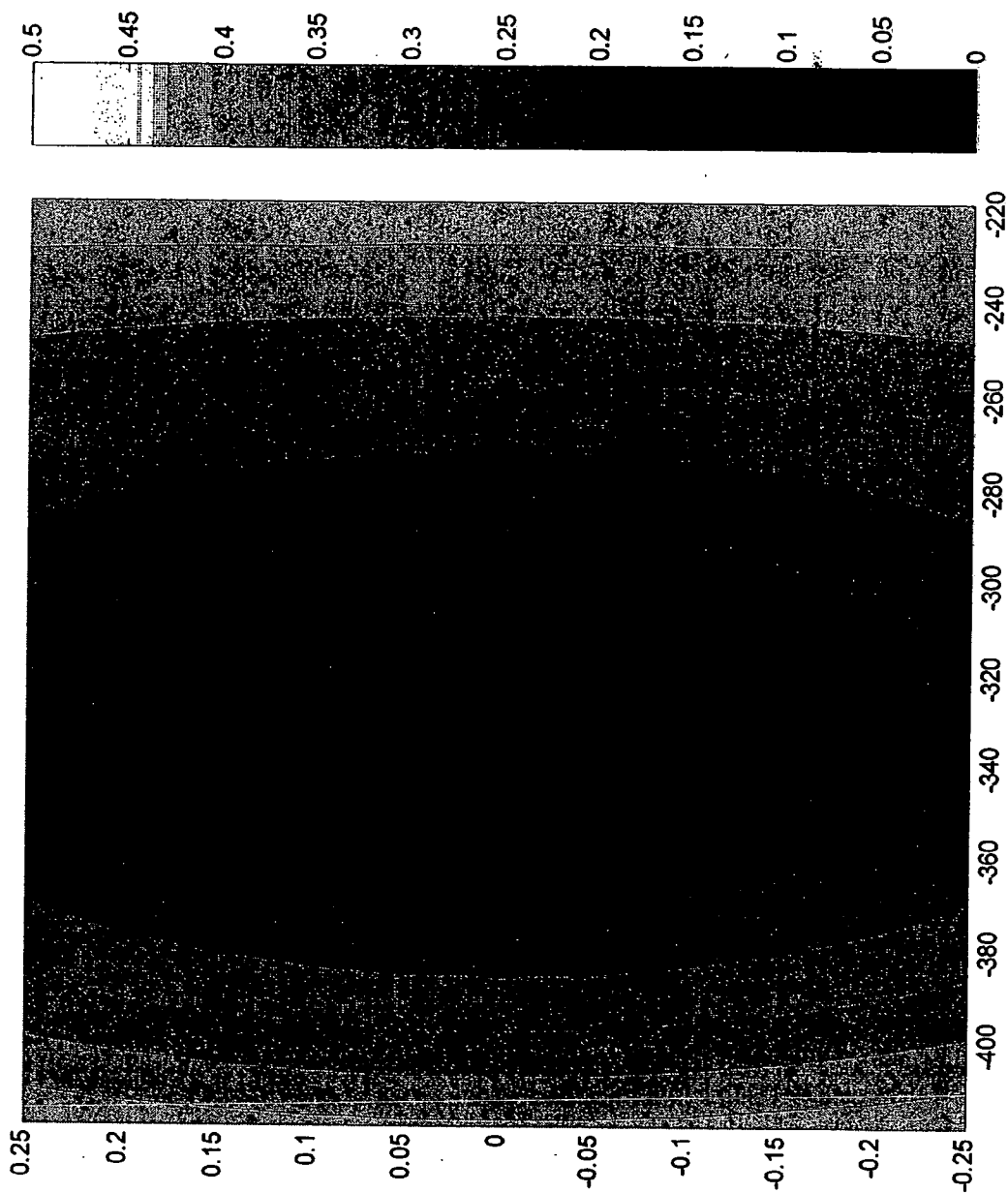


fig 4j

Zernike 2 +0.020 waves rms

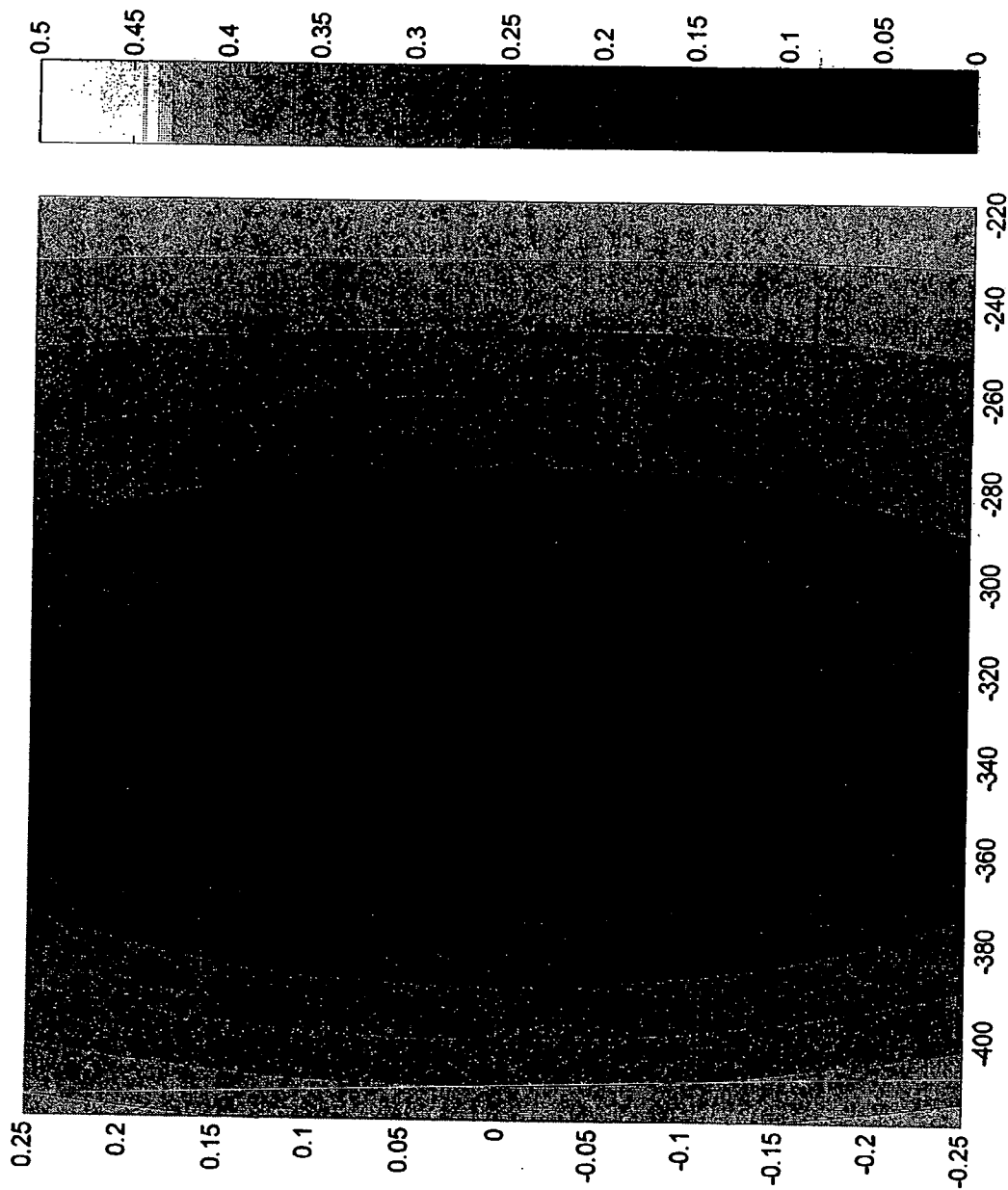
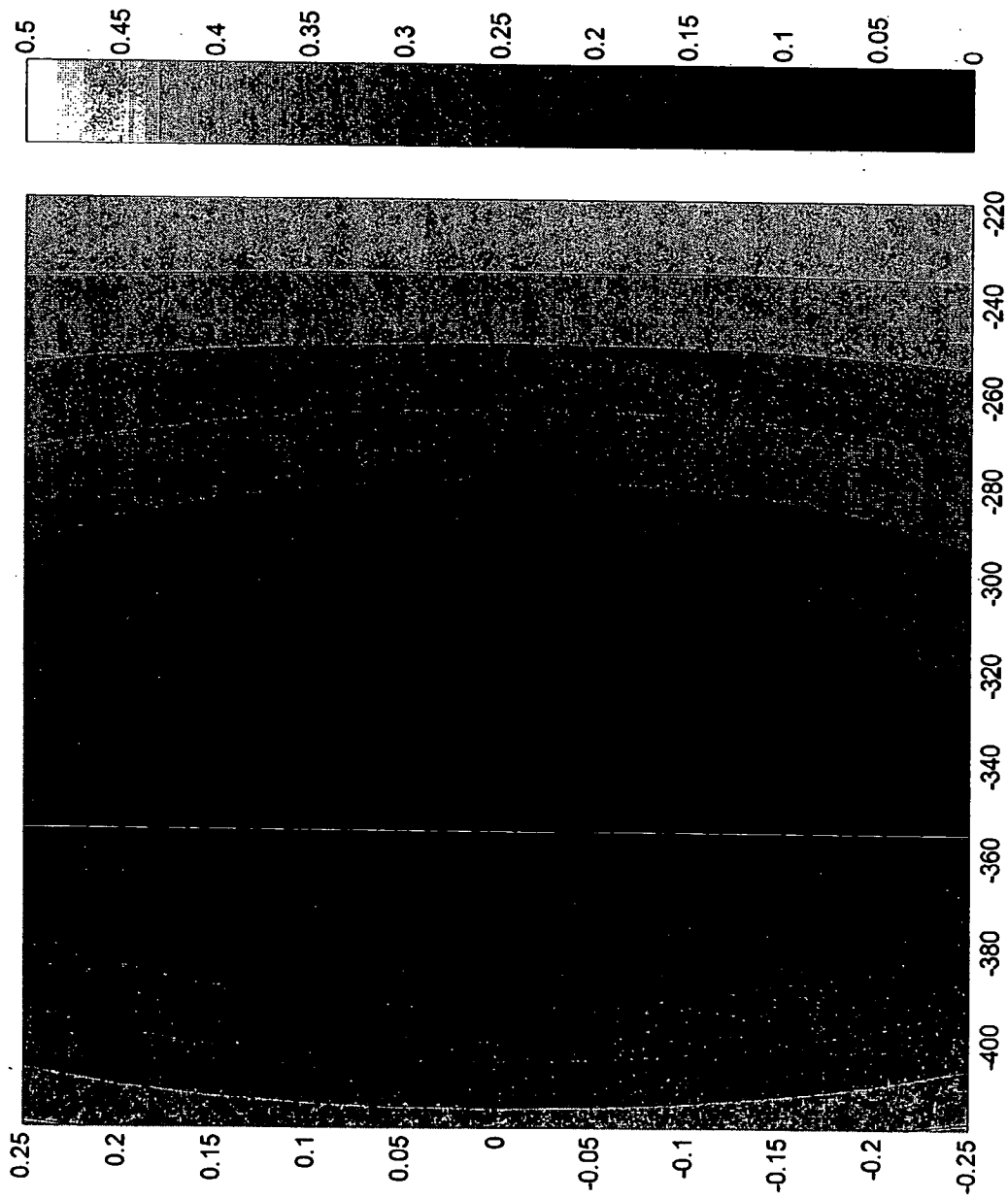


fig 4k

Zernike 2 +0.025 waves rms



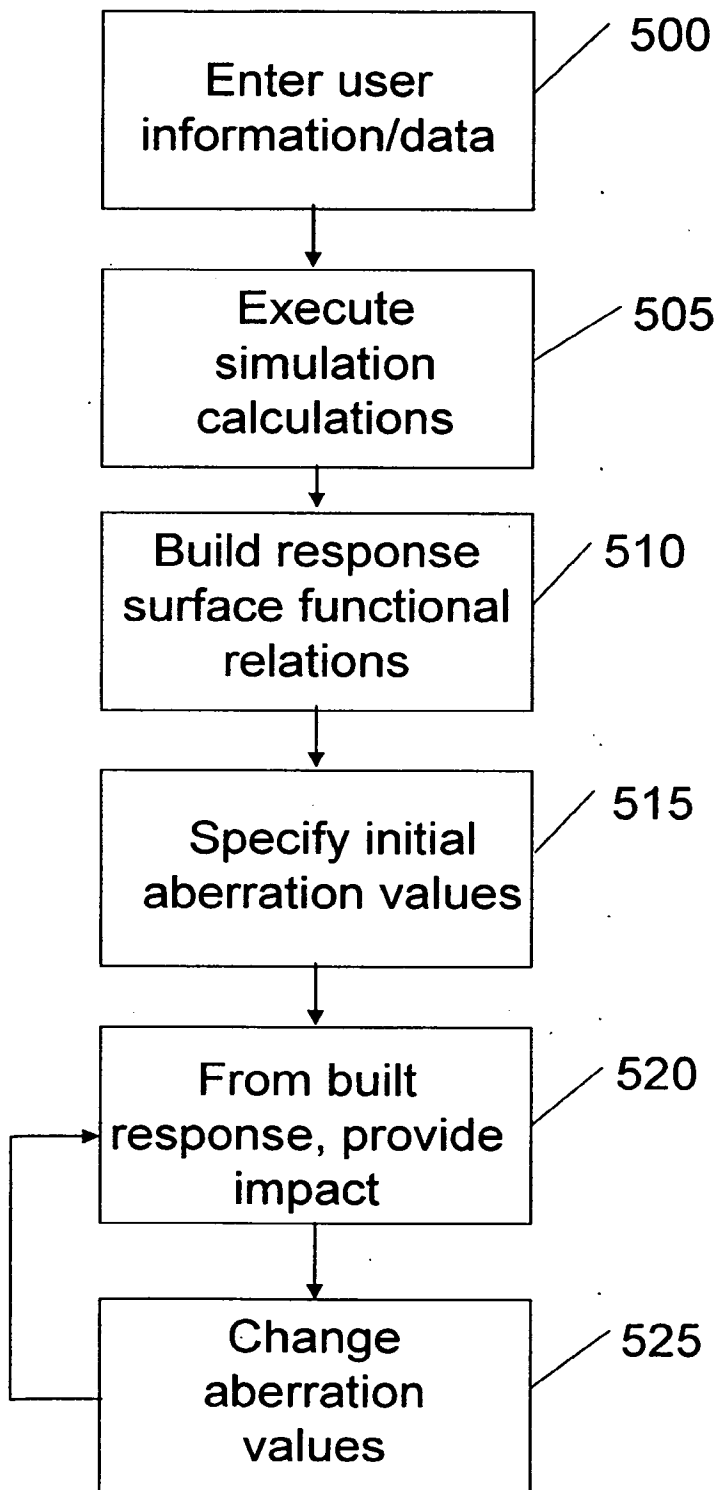


Figure 5